

12

EUROPEAN PATENT APPLICATION

 Application number: 83105534.8


 Int. Cl.: **B 01 D 13/04**

 Date of filing: 06.06.83

 Priority: 02.07.82 SE 8204103

 Applicant: **GAMBRO DIALYSATOREN K.G.**,
 Postfach 1323, D-7450 Hechingen (DE)
 Applicant: Gambre Lundia AB, Box 10101, S-220 10 Lund (SE)

 Date of publication of application: 18.01.84
 Bulletin 84/3

 Inventor: Göhl, Hermann Joseph, Ganswies 8,
 D-7457 Bisingen-Zimmern (DE)
 Inventor: Gelling, Günther Friedrich, Lenausweg 2,
 D-7450 Hechingen (DE)
 Inventor: Mayer, Georg Bernhard, Im Egert 18,
 D-7450 Hechingen-Boll (DE)
 Inventor: Gullberg, Claes-Ake, Högstadiesvägen 32,
 S-222 51 Lund (SE)

 Designated Contracting States: AT BE CH DE FR GB IT
 LI LU NL

 Representative: Boberg, Nils Gunnar Erik, Gambre AB
 Patent Department Box 10101, S-220 10 Lund (SE)

 Filtration membrane and process for producing the membrane.

 Filtration membrane, especially adapted for use in hemofiltration as well as filtration of infusion solutions.

The membrane, preferably in the form of a hollow fiber, is made of a polymer which is soluble in a polar, non-protonic organic solvent. The most preferred polymer for the membrane material is polyamide. Characterizing for the membrane is high ultrafiltration rates (permeabilities to water) of up to 500×10^{-4} ml/sec. \times cm² \times atm., and impermeability to albumin (M_w 68,000).

The membrane is prepared by extruding a polymer solution with a center liquid under conditions such that the volume of polymer solution to volume of center liquid ratio is within the range of from 2 : 1 to 4 : 1. Simultaneously, the inner diameter to wall thickness ratio of the hollow fiber is preferably correlated to the polymer concentration and is set to 150 : 75 to 280 : 75 at a polymer concentration of 5-20%. The most preferred such correlation is 220 : 75 at a polymer concentration of 11%.

EP 0 098 392 A2